WATER AND WASTEWATER TREATMENT SECTION

INDUSTRIAL WASTEWATER PRETREATMENT
SUBMITTAL REQUIREMENTS
(Pursuant to Section 24-31, Dade County Code)

I. Engineer's Report

A. A comprehensive engineer's report describing the project

Including design basis, design data, calculations, and all other pertinent data necessary to give an accurate understanding of the work to be undertaken. Such report shall contain a statement from the engineer of record (registered in Florida) certifying that in his/her professional opinion the facility and associated pollution control system will fully comply with the requirements of Chapter 24 of the Metropolitan Dade County Code.

The report must include complete analysis of the streams to be pretreated. Batch operations must provide detail descriptions of the operations and time sequence.

II. Plans (3 sets, signed and sealed by a registered Professional Engineer).

Plans sizes: 24" X 36" or
11" X 17" for PFD and P&ID only

A. Location/vicinity maps indicating location of project/ facility.

B. Site plan (see Example 1) (at an appropriate scale) showing:

1. All property boundaries.
2. All buildings/structures.
3. Limits of paved areas, indicating type(s) of pavement.
4. All stormwater structures.
5. All sanitary sewer lines including cleanouts, manholes, sampling points, etc.
6. Location of all tanks (aboveground and underground).
7. Location of all groundwater monitoring or disposal wells.
8. Location of existing. on-site water supply or production wells.

C. Floor plan(s) (at an appropriate scale) showing:

1. Location of all equipment.
2. All treatment system(s).
3. All floor drains.
4. All piping for equipment, treatment system(s), floor drains and restrooms including location of all sewer connections.
5. All hazardous material/hazardous waste storage areas including sizes and contents of containers.
6. Details of all waste-generating activities and their locations.

D. Details and sections (fully dimensioned and labeled) of:

1. All secondary containment areas/structures for all tanks, drums, etc. Include cross section detail.
2. All treatment system(s), including tanks, piping, pumps, etc.
3. All waste-generating equipment, including tanks, pumps, piping, etc.

E. Specifications:

1. Complete specifications in sufficient detail necessary to supplement the drawings and specify the work and the methods by which it is to be accomplished.
2. Complete technical specifications for all treatment system(s) and proposed equipment.

F. "Existing" vs. "Proposed" must be clearly indicated on ALL drawings. All existing structures must be shown with broken lines and all proposed structures must be shown with solid lines.

III. Process Description

A complete process description of all processes proposed to be utilized in connection with the operation of the facility or project including:

A. Process Flow Diagram (PFD)(see Example 2) indicating:
1. Flows/Water Balance
2. Chemical Material Balance
3. Operating conditions showing temperature, pressure, percentage of solids and pH.
4. All secondary containment disposal methods must be indicated for contaminated and uncontaminated waters.

B. Piping and Instrument Diagram(P&ID)(see Example 3) indicating:
1 Instruments
2. Pipe information
3. Pump information

IV. Monitoring Requirements

A. A flow meter in the effluent discharge pipe must be installed and calibrated once/year in any facility that has.

- Water well used in process

B. All facilities must provide a sampling point in the most accessible location for inspector's sampling:
- For gravity discharges use standard shallow manhole
- For pressure discharges use wet well
- For facilities with CN the sample point must be at the last point of treatment

C. Continuous monitoring:
- May be required on specific cases

V. Applications/Forms

A. Industrial Pretreatment Facilities Permit Application

1. A completed permit application including Material Safety Data Sheets (MSDS) for all products used and copies of contracts with approved waste hauler(s).

B. Spill Prevention Control and Countermeasure Plan (when required)

1. A completed SPCCP., signed and sealed by a Professional Engineer.:

C. A completed Storage Tank Registration Form DER #17-761.900(2), signed by a responsible/authorized representative is required if:

a. Tank contains pesticides, chlorine, liquid ammonia or petroleum products.

b. Tank is greater than 550 gallons.

VI. Certificate of Completion of Construction

Upon completion of construction, the engineer of record must submit a Certificate of Completion of Construction verifying that the project has been constructed in compliance with the approved plans. As-Built plans are required if there are major deviations or requested by DERM.

A reminder, NO CERTIFICATE OF-OCCUPANCY will be issued on any building to be served by the project until DERM inspect the facility upon certification.